WEBER STATE UNIVERSITY BUILDING #4 STEAM, CONDENSATE, & DOMESTIC WATER REPLACEMENT

DFCM PROJECT NO. 06052810 OGDEN, UTAH

(Fee A.E: Attach and fill in ap	oplicable data for each drawing submittal)
Applicable Codes: International Building Code Planning & Design Criteria to Prevent Architectural Barriers for the Aged and the Physically Handicapped.	International Mechanical Code 2003 International Plumbing Code 2003 Ashrae/IES Energy Code 2001 National Electrical Code 2002
A. Occupancy and Group : N/A	
Change in Use : Yes No X N/A	Mixed Occupancy : YesNoN/A
B. Type of Construction (Circle) N/A $\frac{1}{F.R.}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
C. Location on Property : F.R. Ext. Walls (Hrs.):	N.R. Ext. Wall Opening(s) Protection (Hrs.) N.R. Each Occupancy
D. Occupancy separation required (Hrs.): Sprinklered: Indicate Yes or No	B/R-2=2 HR
Stories : 1 or multiple N/A	
a. Actual Area ² (ft)	36,000 SF
b. Basic allowable area :c. Allowable Area Increasedue to side yards: N	92,000 SF Area (ft)
d. Side yard area increase (ft): Accumulative sub—total (b=d): Sprinkler: area increase (x3 single)	N.A
(x 2 multi) e. Total Allowable Area for a single story: x 2 for multi-story building:	N.A
f. Ratio = a/e (Actual divided by allowable)	
E. Fire-Resistive Requirements (Hrs.)): (1 Hr., 2Hr., 3Hr., 4Hr., N. H.T.)
Exterior Bearing Walls:N/A	Floors - Ceiling FloorsN/A
Interior Bearing Walls: N/A	Roofs — Ceiling RoofsN/A
Exterior Non—bearing Walls: N/A Structural Frame: N/A	Exterior Doors and WindowsNR Shaft EnclosuresN/A



State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018



MECHANICAL ENGINEER WHW ENGINEERING, INC. 1354 EAST 3300 SOUTH SUITE 200 SALT LAKE CITY, UTAH 84106 PHONE: (801) 466-4021 FAX: (801) 466-8536

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PE501-BLDG. #4 PLUMBING DETAILS AND SCHEDULES

				MECHANIC	AL LEG	ENI				
BR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
RMI	NOLOGY	AIR SIDE			WET SIDE			WET SIDE	CON'T	
	SECTION LETTER DESIGNATION	₩		EXISTING AIR DUCT TO BE REMOVED			PUMP	—		PITCH DOWN (SLOPE)
	- SECTION DRAWN ON THIS SHEET	\-\\ \=\		EXISTING AIR DUCT TO REMAIN			UNION	0		ELBOW UP
	DETAIL NUMBER DESIGNATION	₩		NEW AIR DUCT	Г		MANUAL ACTUATOR (BALL,	C		ELBOW DOWN
	CORRESPONDING WITH GRID LOCATION	江 草		RECT. TO RECT. AIR DUCT TAKE-OFF			BUTTERFLY, NEEDLE, ETC. VALVES)	<u> </u>		TEE UP
	- MECHANICAL EQUIPMENT	7		RECT. TO RND. AIR DUCT TAKE-OFF	Т		MANUAL ACTUATOR (GATE, GLOBE,			TEE DOWN
	DESIGNATION - EQUIPMENT ITEM DESIGNATION	江草		RND. TO RND. AIR DUCT TAKE-OFF			S&D, OS&Y, ETC. VALVES)			EXISTING PIPING TO BE R
	REVISION DESIGNATOR AND NUMBER	├ ├ 		RECT. TAKE-OFF AT END OF MAIN	7		PNEUMATIC DIAPHRAGM ACTUATOR			EXISTING PIPING TO REMA
	KEY NOTE DESIGNATOR AND NUMBER	├ ├ ├ !		BURIED OR UNDER FLOOR DUCT	М		ELECTRIC MOTOR ACTUATOR			NEW PIPING
C	POINT OF CONNECTION	Simulanis		FLEXIBLE AIR DUCT	2		SOLENOID ACTUATOR			PIPE CAP OR PLUG
OR	POINT OF REMOVAL	₺		LINED DUCT	—>>\		THREADED OR SWEAT VALVE CONNECTION			CONCENTRIC REDUCER
	ABOVE FINISHED FLOOR			VANED ELBOW			FLANGED VALVE CONNECTION			ECCENTRIC REDUCER
	ACCESS PANEL	7 4		RADIUS ELBOW	—П—		BUTTERFLY VALVE			EXPANSION JOINT
	CENTER LINE ELEVATION	₩ □		CONCENTRIC DUCT TRANSITION			GATE VALVE			FLEXIBLE CONNECTION
	INVERT ELEVATION			ECCENTRIC DUCT TRANSITION			GLOBE VALVE - STRAIGHT PATTERN			ANCHOR POINT
	GENERAL CONTRACTOR	1		FLEXIBLE DUCT CONNECTION	½ —		GLOBE VALVE - ANGLE PATTERN	—CD—		CONDENSATE DRAIN
	MECHANICAL CONTRACTOR	→VD + → →		VOLUME DAMPER			MOTORIZED 2-WAY CONTROL VALVE		CW	CULINARY COLD WATER
	CONTROL CONTRACTOR			SUPPLY AIR DIFFUSER	M M		MOTORIZED 3-WAY CONTROL VALVE		HW	CULINARY HOT WATER
	ELECTRICAL CONTRACTOR			RETURN AIR, FRESH AIR, AND			CHECK VALVE			RECIRCULATED CULINAR
	FIRE PROTECTION CONTRACTOR			TRANSFER AIR CEILING MOUNTED EXHAUST FAN OR		PRV	PRESSURE REDUCING VALVE	-CHWS-		CHILLED WATER SUPPLY
				EXHAUST GRILLE RETURN OR OUTSIDE AIR DUCT UP		PRV	PRES REDUCING VALVE W/ CHECK	-CHWR-		CHILLED WATER RETURN
	NOT TO SOAL F			SUPPLY DUCT UP	٦٢	CBV	CIRCUIT BALANCING VALVE	—LPS—		LOW PRESSURE STEAM
	NOT TO SCALE			EXHAUST AIR INTAKE UP	<u></u> —	BV	3 PIECE BALL VALVE	LPS LPR—		LOW PRESSURE STEAM R
	COMMON			RETURN OR OUTSIDE AIR DUCT DOWN	Ψ 	PRV	PRESSURE RELIEF VALVE	MPS—		MEDIUM PRESSURE STEA
	NORMALLY CLOSED			SUPPLY DUCT DOWN	<u></u>	TRV	THERMAL RELIEF VALVE			MEDIUM PRESSURE STEA
	NORMALLY OPEN	<u> </u>			· · · · · · · · · · · · · · · · · · ·			—MPR—		
				EXHAUST DUCT DOWN	ş s	SRV	SAFETY RELIEF VALVE	—HPS—		HIGH PRESSURE STEAM
		₩ 10		ROUND DUCT UP			PLUG VALVE	—HPR —		HIGH PRESSURE STEAM F
		H 10		ROUND DUCT DOWN	<u> </u>		NEEDLE VALVE	—PC—		PUMPED CONDENSATE
				FLEXIBLE DUCT CONNECTION	<u></u> 3D⊢	TDV	TRIPLE DUTY VALVE	-		
				PARALLEL BLADE DAMPER	<u> </u>		AUTOMATIC AIR VENT	-		
				OPPOSED BLADE DAMPER	<u> </u>		MANUAL AIR VENT	-		
		<u> </u>		FILTER BANK	7		STRAINER	-		
				COIL	***		STRAINER W/ PLUGGED BLOW OFF	-		
			AP	ACCESS PANEL		VTI	VENTURI	1		
				EXISTING EQUIPMENT TO BE REMOVED			PRESSURE GAUGE AND GAUGE COCK -WATER			
				EXISTING EQUIPMENT TO REMAIN				_		
				NEW EQUIPMENT			PRESSURE GAUGE AND GAUGE COCK -STEAM			
		M	MVD	MOTORIZED VOLUME DAMPER	<u> </u>			_		
		BD	BD	BACKDRAFT DAMPER			THERMOMETER AND THERMOWELL			
		T	T'STAT	WALL MOUNTED THERMOSTAT						
		2		WALL MOUNTED TEMP. SENSOR	Ş		WATER TEMPERATURE SENSOR AND THERMOWELL			
		H	H'STAT	WALL MOUNTED HUMIDISTAT	<u> </u>					
		F	F'STAT	WALL MOUNTED FIRESTAT	F		FLOW SWITCH			
		SA		SUPPLY AIR			T LOW GWITGH]		
		RA		RETURN AIR	PS	PS	PRESSURE SWITCH			
		EA		EXHAUST AIR						
		OA		OUTSIDE AIR	—	TW	THERMOWELL			
		MA		MIXED AIR	Т		PRESS. & TEMP. TAP			
		FA		FRESH AIR			INVERTED BUCKET STEAM TRAP			
		RF		RELIEF AIR	$-\otimes_{\overline{\Pi}}$		THERMOSTATIC STEAM TRAP			
					—⊗ _{F&T}		FLOAT & THERMOSTATIC STEAM TRAP			
					->		DIRECTION OF FLOW]		
			1		1		i	_		

SYMBOL ABR.

INV. ELEV

CC

FPC

GENERAL TERMINOLOGY

POC POINT OF CONNECTION

POR POINT OF REMOVAL

GENERAL NOTES:

DESCRIPTION

EXISTING PIPING TO BE REMOVED

EXISTING PIPING TO REMAIN

| MEDIUM PRESSURE STEAM

LOW PRESSURE STEAM RETURN

MEDIUM PRESSURE STEAM RETURN

HIGH PRESSURE STEAM RETURN

RECIRCULATED CULINARY HOT WATER

MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION

C.F.M. LISTED IS ACTUAL AIR.

SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

State of Utah Department of Administrative Services



Division of Facilities Construction & Management 4110 State Office Building Salt Lake City, Utah 84114 Phone: (801) 538 - 3018 Fax: (801) 538 - 3267

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PROJECT NAME & ADDRESS

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WSU BUILDINGS #4 STEAM, CONDENSATÉ, DOMESTIC WATER REPLACEMENT **DFCM No. 06052810**

OGDEN, UTAH

MARK DATE REVISION — CD 4/17

PROJECT MANAGER:

STAFF CHECKED BY: SLW 06004

> **MECHANICAL GENERAL NOTES AND**

M001



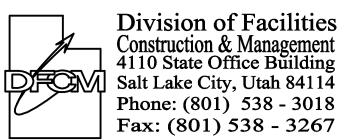
- SHALL REMAIN.

 (7) EXISTING COMPRESSOR SHALL REMAIN.
- 8 EXISTING FAN COIL UNIT SHALL REMAIN.
- 9 SEE SHEET MD102 AND MD103 FOR CONTINUATION.
- REMOVE EXISTING RISER TO SECOND FLOOR.
 CAP PIPING IN CRAWL SPACE AT ISOLATION
 VALVE AND PROTECT FOR FUTURE
 RE-CONNECTION. FIELD VERIFY EXACT SIZE AND
 LOCATION OF EXISTING PIPING.

SHEET NOTES:

- 1 EXISTING STEAM AND CONDENSATE PIPING SHALL REMAIN.
- SHALL REMAIN.

 (2) EXISTING FIN TUBE RADIATOR ABOVE SHALL REMAIN. SEE ME102.
- (3) EXISTING ANCHORS FOR STEAM AND CONDENSATE PIPING AT THESE APPROXIMATE LOCATIONS SHALL REMAIN.
- (4) EXISTING DUCTS, FANS, COOLING COILS, ETC. SHALL REMAIN.
- 5 EXISITNG LOW PRESSURE STEAM PIPING IN TUNNEL SHALL REMAIN.



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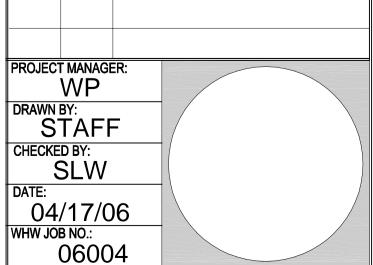
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PROJECT NAME & ADDRESS

WSU BUILDINGS
4 STEAM,
CONDENSATE,
DOMESTIC WATER
REPLACEMENT
DFCM No. 06052810

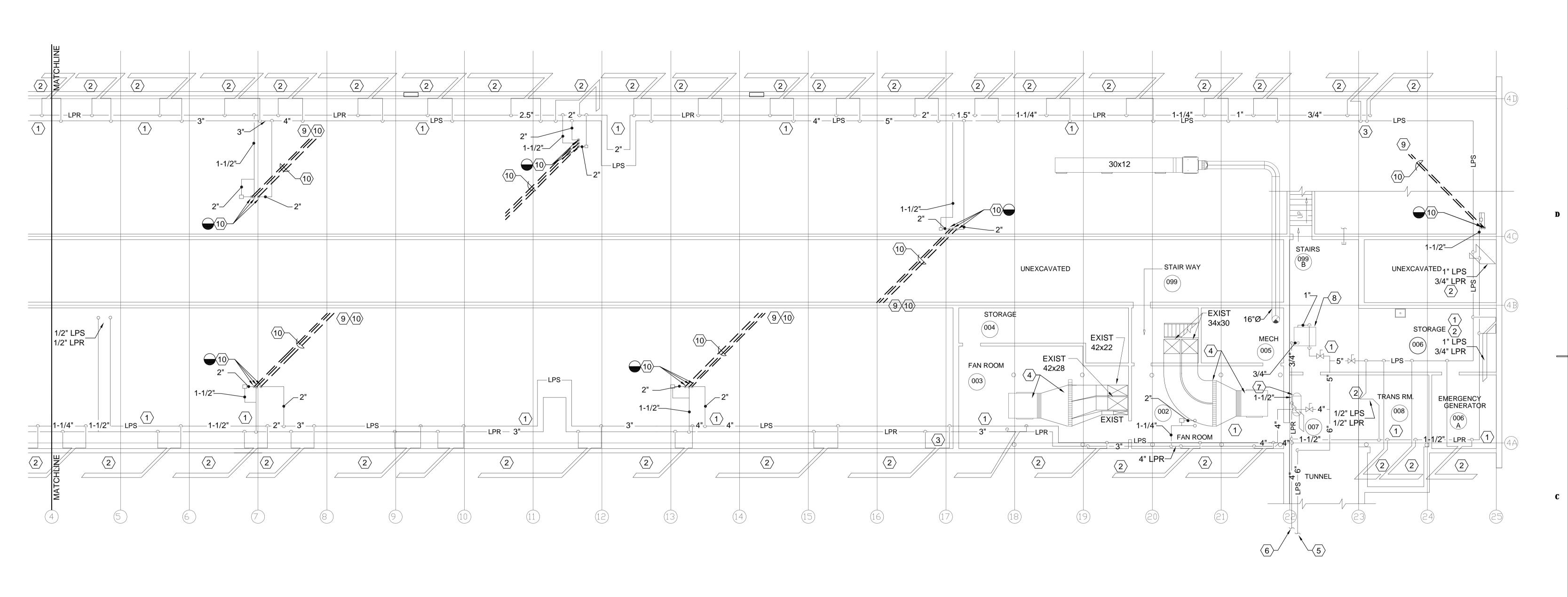
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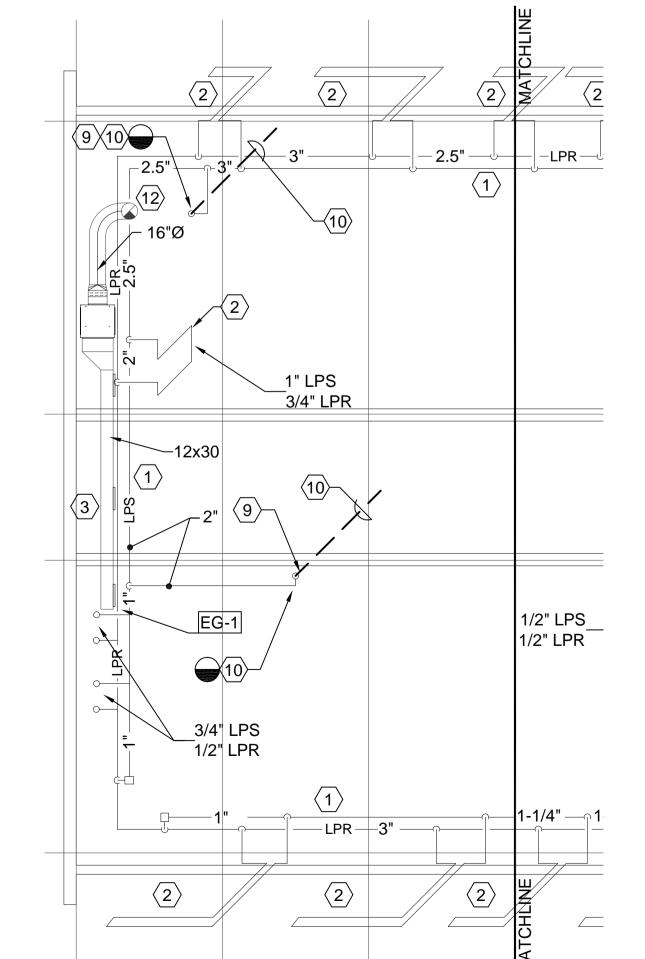
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CD	4/17	



BUILDING # 4 CRAWL SPACE AND TUNNEL MECHANICAL DEMO PLAN

MD101





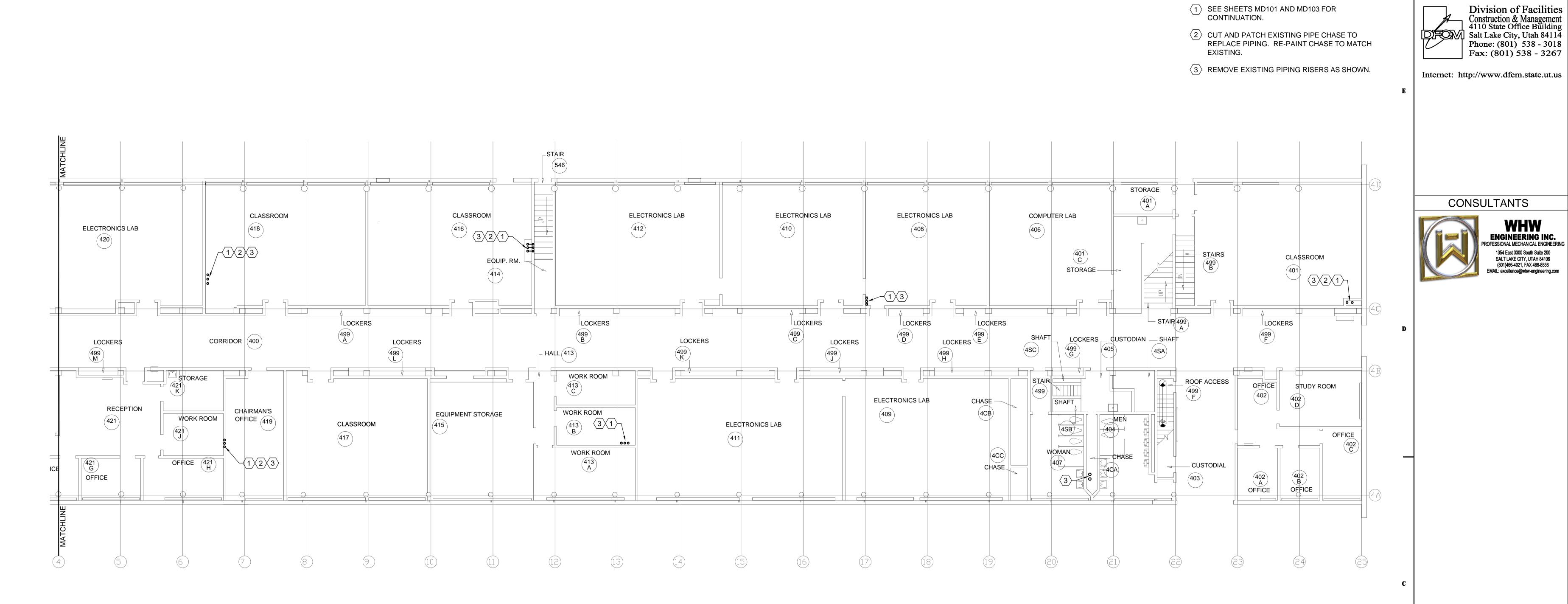
BUILDING #4 CRAWL SPACE AND TUNNEL MECHANICAL DEMO. PLAN

SCALE: 1/8" = 1'-0"



GENERAL NOTES:

DEMOLITION OF PIPING SHALL BE PERFORMED BY THE ASBESTOS ABATEMENT CONTRACTOR UNDER A SEPERATE STATE CONTRACT. THESE DEMOLITION PLANS ARE FOR REFERENCE AND COORDINATION PURPUSES ONLY.



BUILDING #4 MAIN LEVEL MECHANICAL DEMO. PLAN SCALE: 1/8" = 1'-0"

424 STORAGE

1\3

MECHANICAL

WORK SHOP

STAIR 499 C

421 OFFICE

OFFICE (421 C

421

MAINTENANCE STORAGE

CUSTODIAL OFFICE (422)

CONFERENCE

1 2 3

421 E OFFICE

(420 A



GENERAL NOTES:

DEMOLITION OF PIPING SHALL BE PERFORMED BY THE ASBESTOS ABATEMENT CONTRACTOR UNDER A SEPERATE STATE CONTRACT. THESE DEMOLITION PLANS ARE FOR REFERENCE AND COORDINATION PURPUSES ONLY.

SHEET NOTES:

1 SEE SHEETS MD101 AND MD103 FOR CONTINUATION.

2 CUT AND PATCH EXISTING PIPE CHASE TO REPLACE PIPING. RE-PAINT CHASE TO MATCH

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PROJECT NAME & ADDRESS

WSU BUILDINGS #4 STEAM, CONDENSATÉ, **DOMESTIC WATER** REPLACEMENT **DFCM No. 06052810**

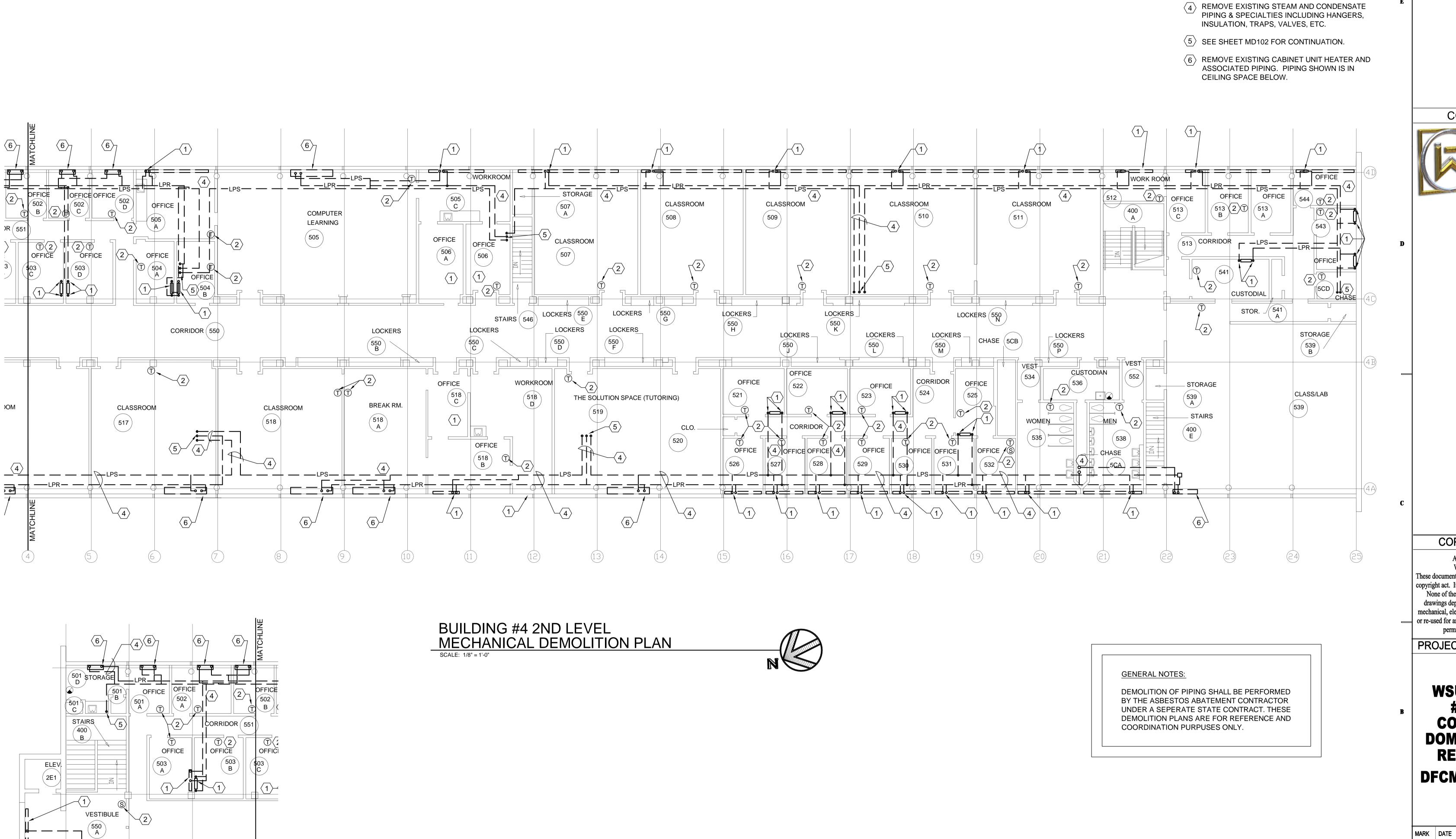
OGDEN, UTAH

REVISION CD 4/17

PROJECT MANAGER: WP SLW 04/17/06 WHW JOB NO.: 06004

> **BUILDING #4** MAIN LEVEL MECHANICAL DEMO. PLAN

MD102



CLASSROOM

State of Utah Department of Administrative Services

SHEET NOTES:

CEILING SPACE BELOW.

FUNCTION PROPERLY.

 $\langle 3 \rangle$ NOT USED.

(1) REMOVE EXISTING FIN TUBE CONVECTOR AND

ASSOCIATED PIPING. PIPING SHOWN IS IN

 $\langle 2 \rangle$ EXISTING THERMOSTAT SHALL REMAIN. VERIFY

THAT THERMOSTAT AND CONTROL VALVE

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WSU BUILDINGS #4 STEAM, CONDENSATÉ, DOMESTIC WATER REPLACEMENT

DFCM No. 06052810

OGDEN, UTAH

MARK	DATE	REVISION
CD	4/17	
DD0 150	T MANAGE	

SLW 06004

> **BUILDING #4 2ND LEVEL MECHANICAL DEMO.** PLAN

MD103

SHEET NOTES CONT.:

TRANSITION PIPE SIZES AS SHOWN BEFORE RISING TO LEVEL ABOVE.

PROVIDE NEW STEAM AND CONDENSATE. RISERS TO SECOND FLOOR. ROUTE IN NEW LOCATION. COORDINATE WITH SHEETS ME102 AND ME103.

SHEET NOTES CONT.:

5 EXISITNG LOW PRESSURE STEAM PIPING IN TUNNEL SHALL REMAIN.

6 EXISTING MAIN CONDENSATE PIPING IN TUNNEL SHALL REMAIN.

(7) EXISTING COMPRESSOR SHALL REMAIN.

8 EXISTING FAN COIL UNIT SHALL REMAIN. RECONNECT TO NEW PIPING.

9 SEE SHEET ME102 FOR CONTINUATION.

PROVIDE NEW STEAM AND CONDENSATE RISERS TO SECOND FLOOR. RE-CONNECT IN CRAWL SPACE AT ISOLATION VALVE. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING.

SHEET NOTES:

1 EXISTING STEAM AND CONDENSATE PIPING SHALL REMAIN.

SHALL REMAIN. $\langle 2 \rangle$ EXISTING FIN TUBE RADIATOR ABOVE SHALL

REMAIN. SEE ME102.

3 EXISTING ANCHORS FOR STEAM AND CONDENSATE PIPING AT THESE APPROXIMATE LOCATION SHALL REMAIN.

(4) EXISTING DUCTS, FANS, COOLING COILS, ETC. SHALL REMAIN.

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Division of Facilities

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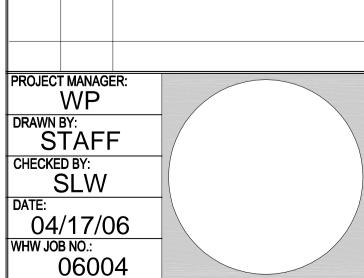
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DFCM No. 06052810

OGDEN, UTAH

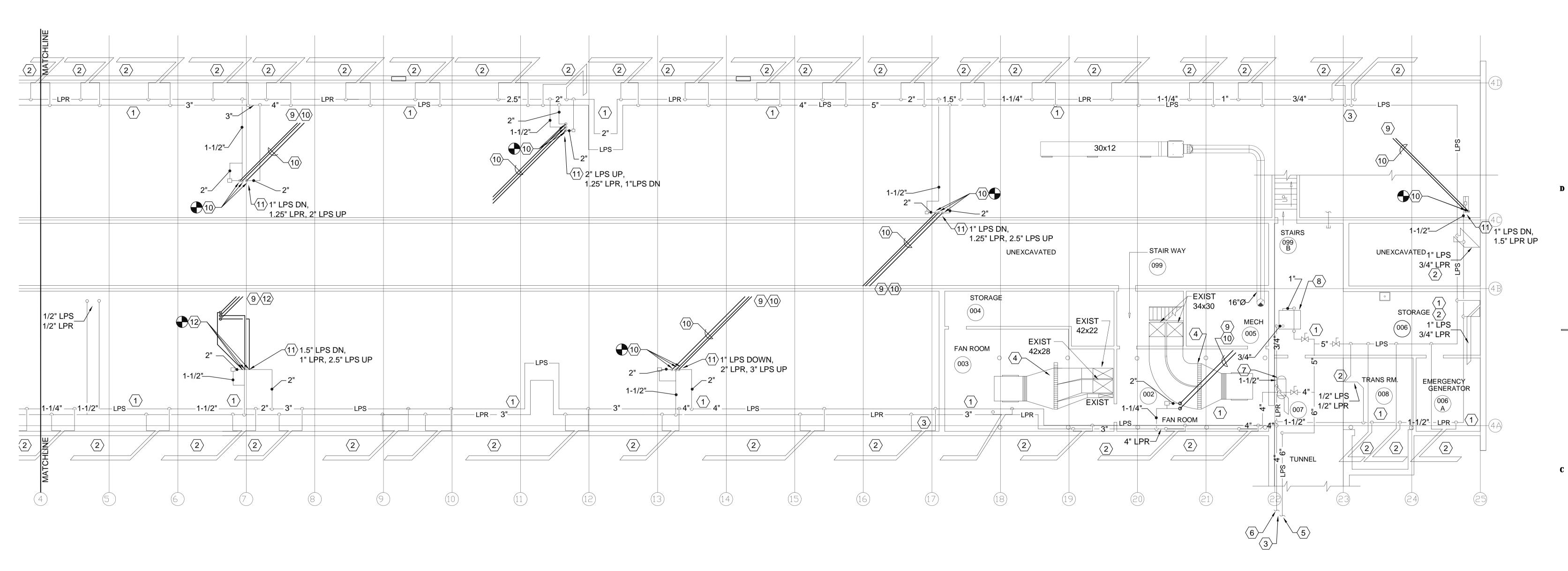
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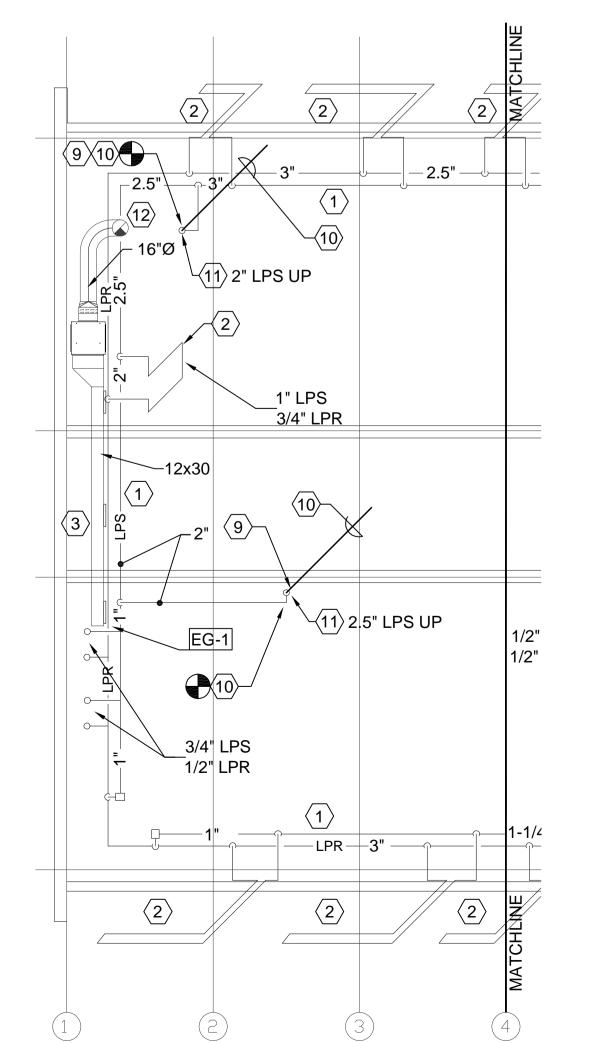


BUILDING # 4 CRAWL SPACE AND TUNNEL MECHANICAL PLAN

IO.

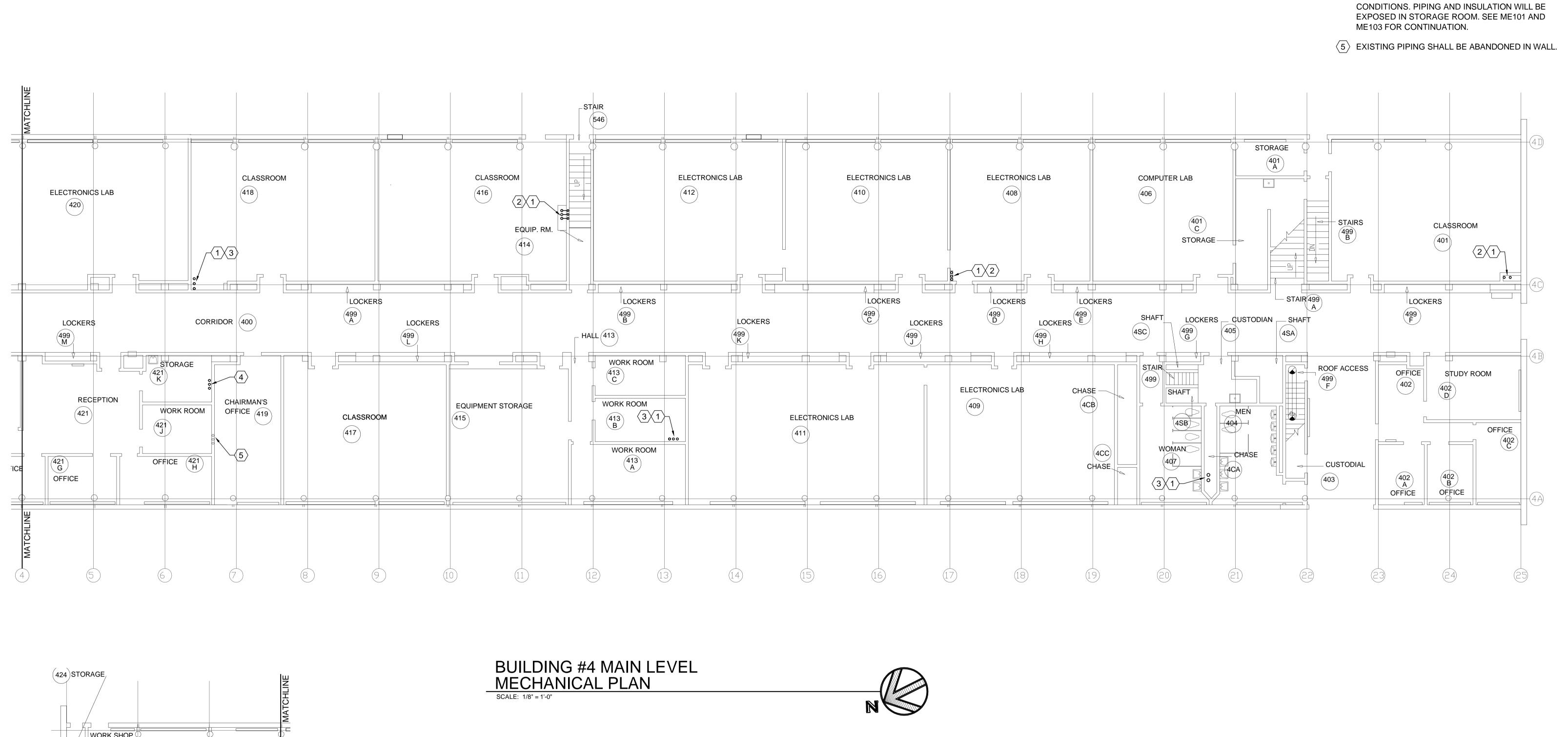
ME101





BUILDING #4 CRAWL SPACE AND TUNNEL MECHANICAL PLAN





MAINTENANCE STORAGE

CUSTODIAL OFFICE (422)

421 OFFICE

CONFERENCE

421 F OFFICE

· 💾

STAIR 499 C

421 OFFICE

OFFICE 421 C

421 D OFFICE

1 2 3

VEST 400 E 400 D

MECHANICAL

SHEET NOTES:

- $\langle 1 \rangle$ REPLACE EXISTING PIPE RISER. SEE SHEETS ME101 AND ME103 FOR CONTINUATION.
- $\langle 2 \rangle$ CUT AND PATCH EXISTING PIPE CHASE TO REPLACE PIPING. RE-PAINT CHASE TO MATCH EXISTING.
- (3) ROUTE PIPING AND INSULATION EXPOSED IN THIS AREA.
- (4) ROUTE NEW PIPING IN NEW LOCATION. COORDINATE EXACT LOCATION WITH EXISTING



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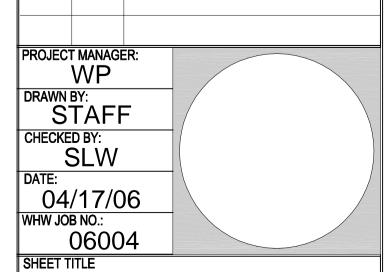
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OGDEN, UTAH

	MARK	DATE	REVISION
_	CD	4/17	



BUILDING # 4 MAIN LEVEL
MECHANICAL PLAN

ME102

GENERAL NOTES: 1. PAINT AND PATCH WALLS THAT ARE EXPOSED OR DAMAGED AFTER CONVECTORS ARE REMOVED.

PROVIDE UNIT COSTS TO REPAIR/REPLACE 1ST LEVEL CEILING TILE, TRACK, AND GRID AS REQUIRED. SEE SPECIFICATIONS.

EXCEPT WHERE NOTED OTHERWISE, STEAM AND CONDENSATE PIPING MAINS SHALL BE SLOPED IN THE SAME DIRECTION AS THE FLOW. BRANCH PIPING SHALL BE SLOPED BACK TO THE MAINS. SEE SPECIFICATIONS.

SHEET NOTES CONT:

 $\overline{\langle 5 \rangle}$ PROVIDE NEW CONVECTOR IN NEW LOCATION. PROVIDE NEW FLOOR PENETRATIONS. COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS.

6 PATCH AND REPAIR WALLS WHERE THE CONVECTOR IS REMOVED.

SHEET NOTES:

1 REPLACE EXISTING FIN TUBE CONVECTOR WITH NEW CONVECTOR. REATTACH NEW COVER TO WALL. CONNECT TO NEW PIPING AND TRANSITION PIPING AS NECESSARY TO CONNECT TO NEW COIL. SEE SCHEDULES FOR STEAM AND CONDENSATE BRANCH PIPE SIZES. PROVIDE NEW FLOOR PENETRATIONS WITH NEW ESCUTCHEONS. PATCH AND REPAIR EXISTING PENETRATIONS. RECONNECT NEW CONTROL VALVE TO EXISTING PNEUMATIC CONTROL TUBING. INSPECT AND REPAIR TUBING AS NECESSARY FOR PROPER OPERATION.

2 PROVIDE NEW CABINET UNIT HEATER. RECONNECT TO EXISTING ELECTRICAL SERVICE. TIE INTO NEW PIPING. TRANSITION PIPING AS NECESSARY TO CONNECT TO NEW COIL. SEE SCHEDULES FOR STEAM AND CONDENSATE BRANCH PIPE SIZES.

(3) PROVIDE NEW THERMOSTAT. COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS.

 $\overline{\langle 4 \rangle}$ EXISTING THERMOSTAT SHALL REMAIN. INSPECT AND VERIFY OPERATION. PROVIDE UNIT PRICE IN BID TO REPLACE IF NECESSARY. TIE INTO NEW CONVECTOR(S).

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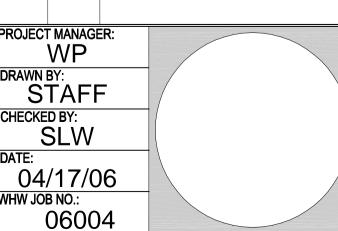
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PROJECT NAME & ADDRESS

WSU BUILDINGS #4 STEAM, CONDENSATÉ, **DOMESTIC WATER** REPLACEMENT **DFCM No. 06052810**

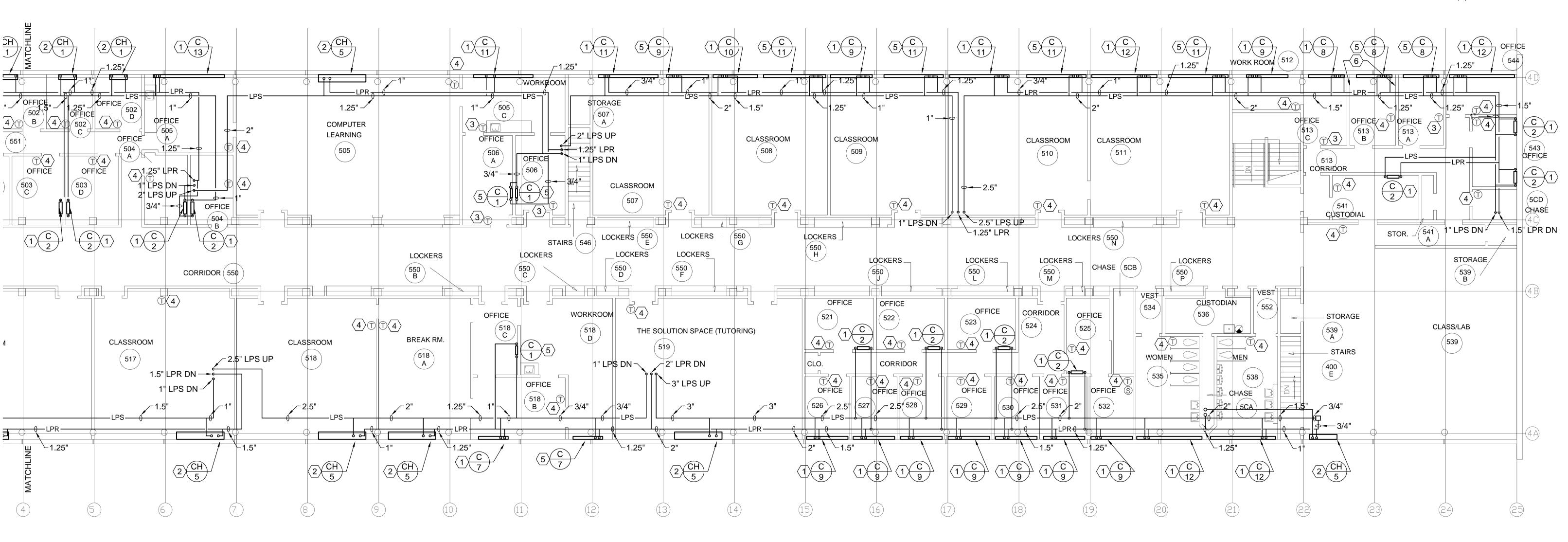
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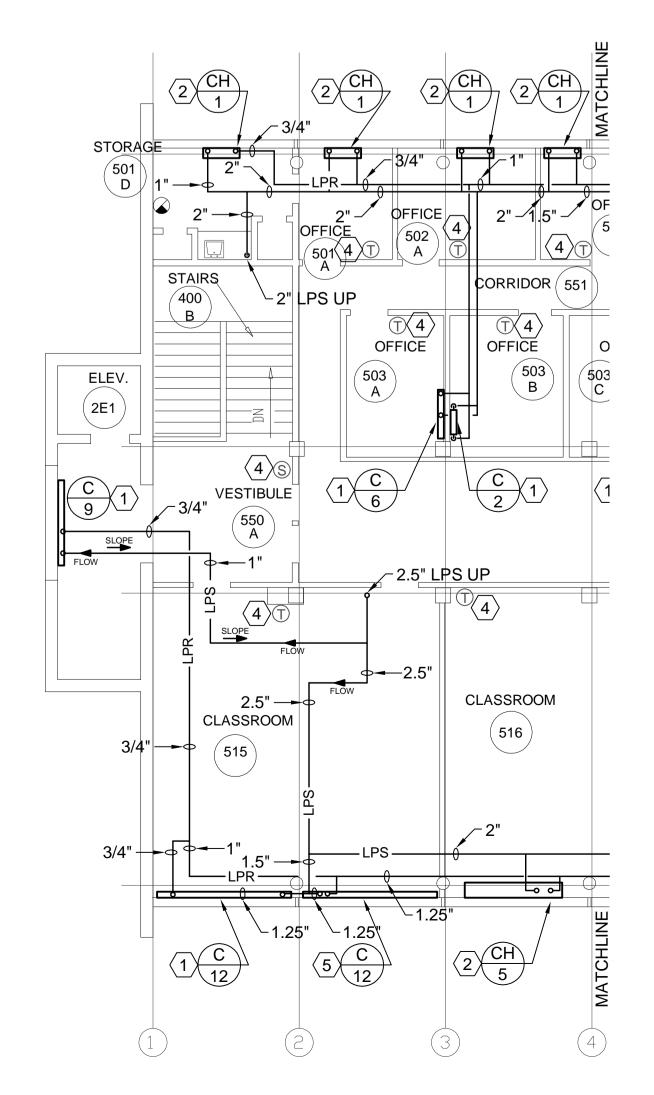
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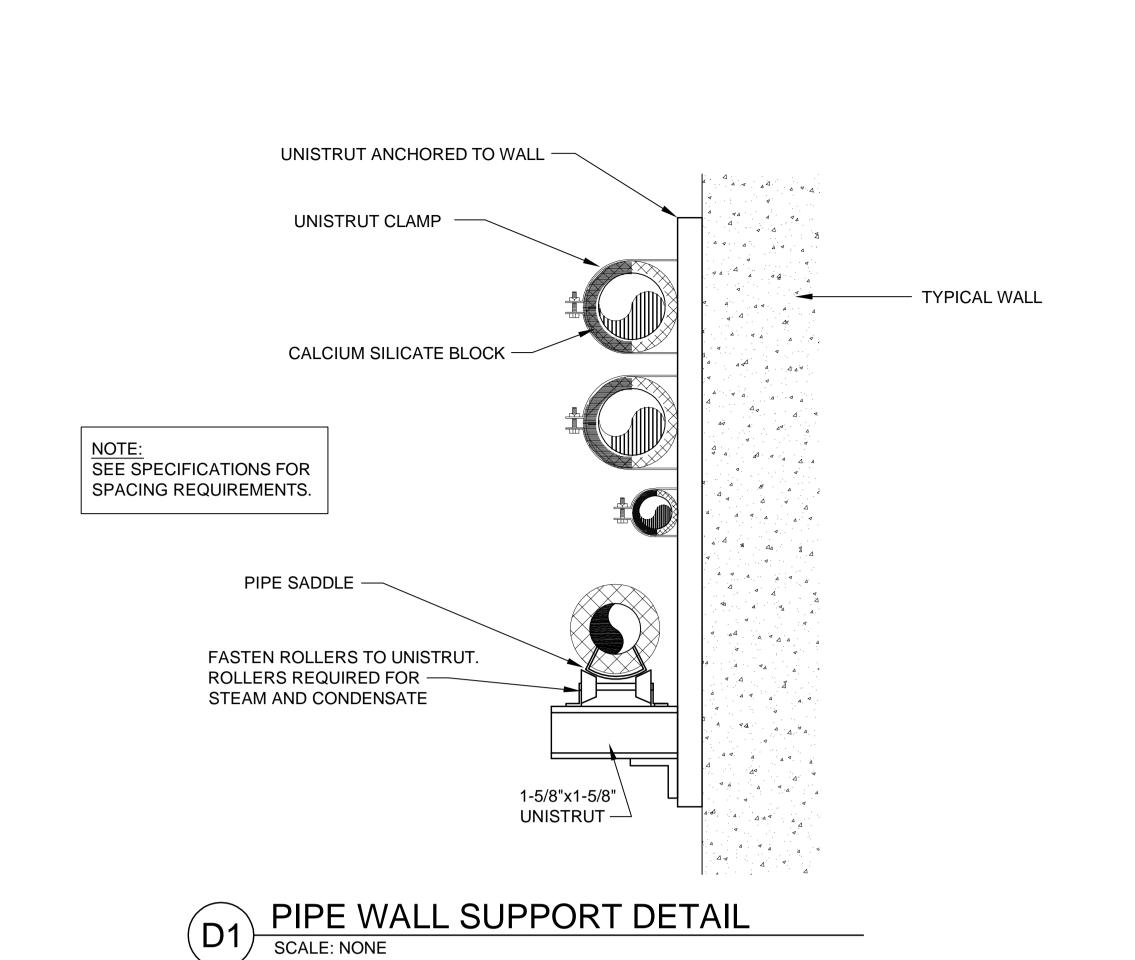
BUILDING #4 2ND LEVEL MECHANICAL PLAN

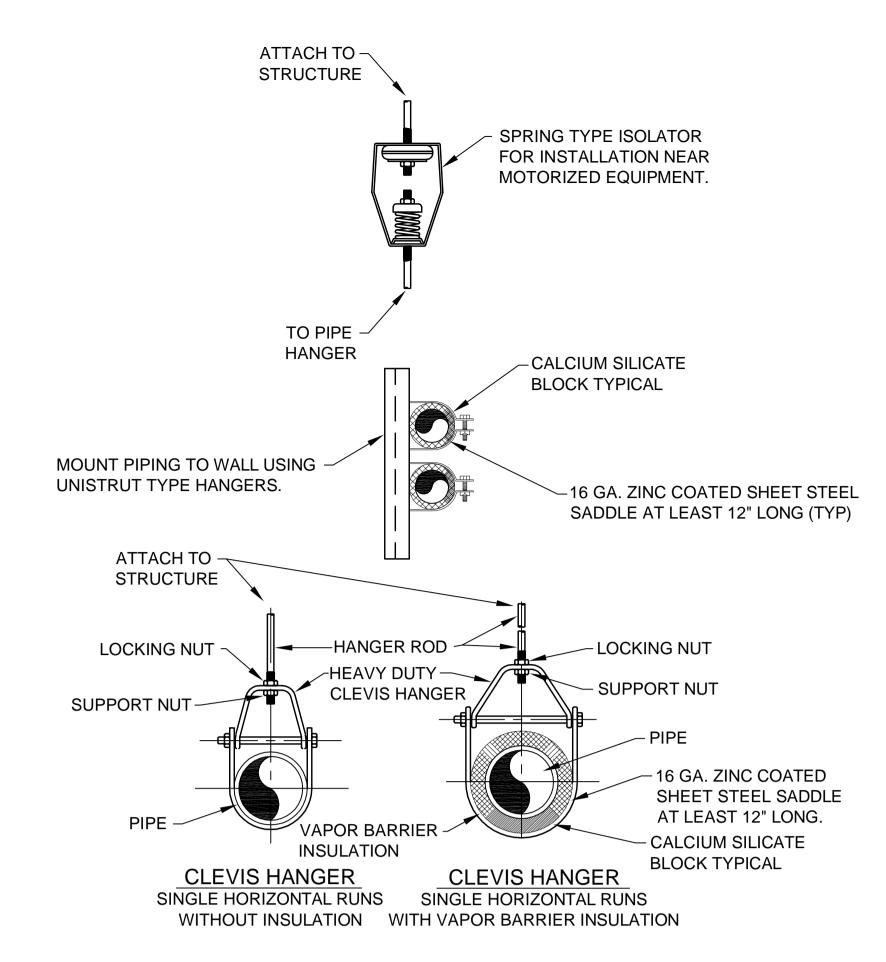
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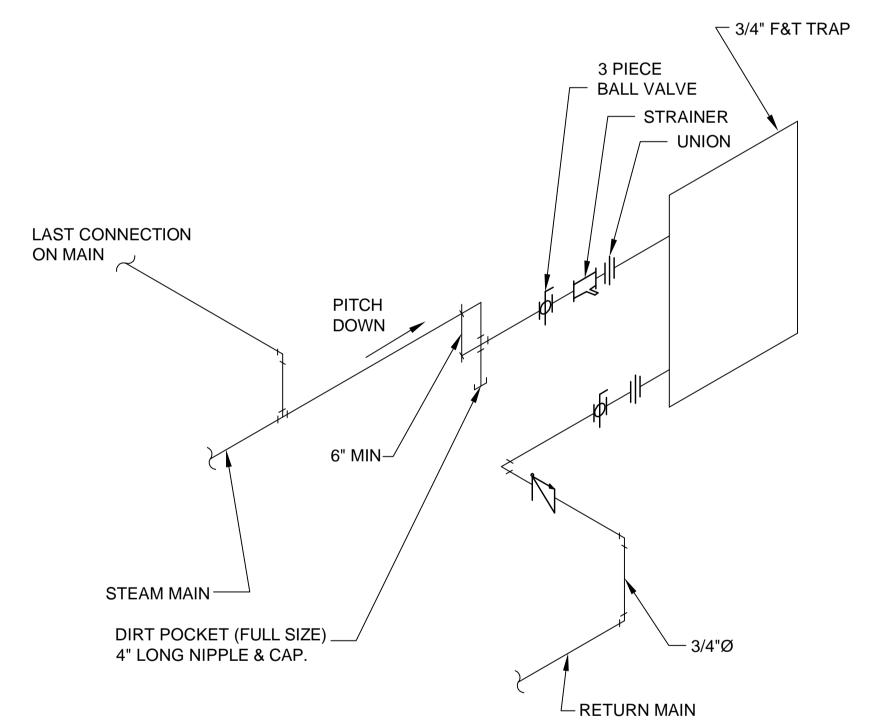


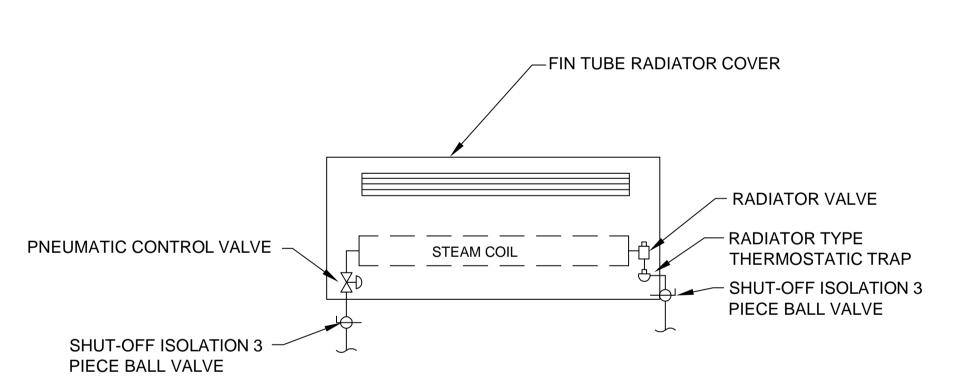
BUILDING #4 2ND LEVEL MECHANICAL PLAN





PIPE HANGER DETAIL

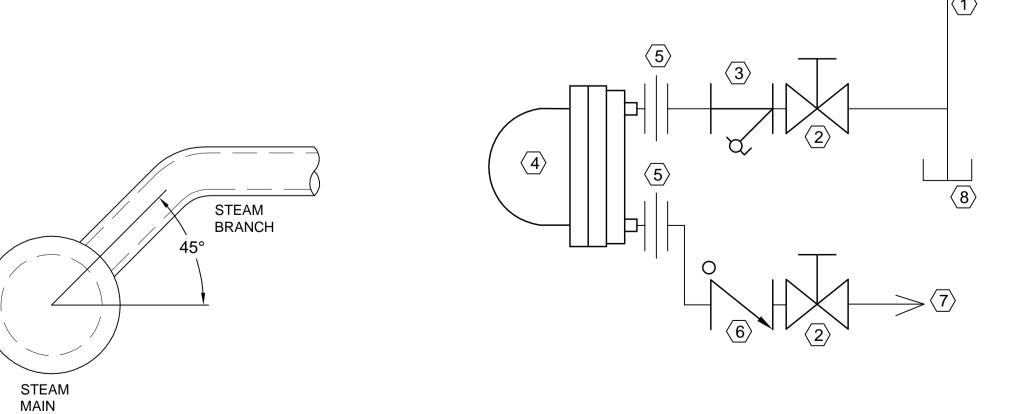




STANDARD STEAM CONVECTOR DETAIL

DRIP AT END OF MAIN DETAIL SCALE: NONE

STEAM PIPING TAKE-OFF DETAIL





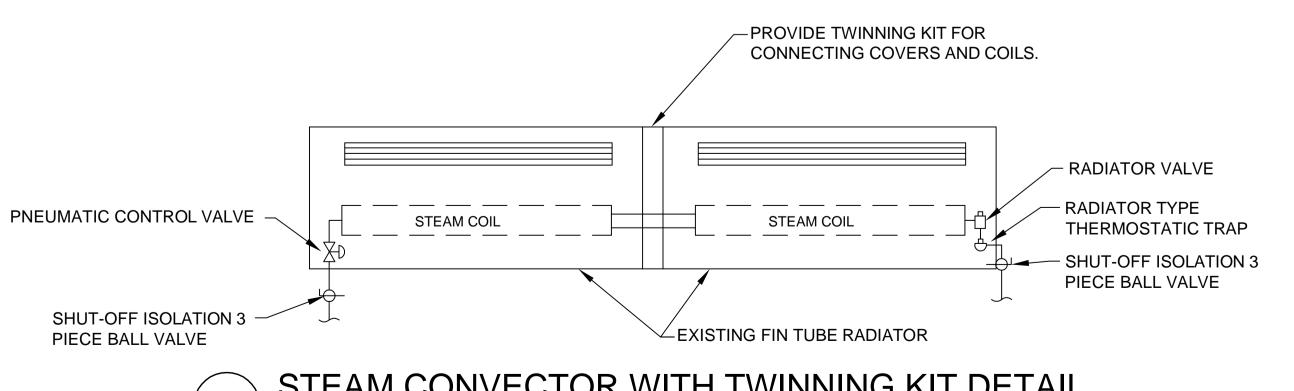
		DETAIL NOTES:
	(1)	DETAIL NOTES:
<u>(5)</u>		1 DRIP LEG-FULL SIZE
		② GATE VALVE
		3 STRAINER
		4 F&TTRAP
	<u>8</u>	5 UNION
		6 CHECK VALVE
	$\Rightarrow \langle 7 \rangle$	7 TO CONDENSATE PUMP
6		8 DIRT LEG WITH CAP

	FINTUBE CONVECTOR SCHEDULE							
SYMBOL	MBTU	STEAM	_	STEAM PIPING BRANCHES		MAKE AND MODEL	COMMENTS	
	IVIDIO	LBS/HR	SUPPLY	RETURN	LxWxH			
\bigcirc	3.2	3.5	1/2"	1/2"	20x4x20	AIRTHERM SW-A	1 2	
<u>C</u>	3.6	3.75	1/2"	1/2"	24x4x24	AIRTHERM SW-A	1 2	
<u>C</u>	9.9	10.25	3/4"	1/2"	32x4x26	AIRTHERM SW-A	1 2	
C 4	11.3	11.75	3/4"	1/2"	36x4x26	AIRTHERM SW-A	1 2	
<u>C</u> 5	14.2	14.75	3/4"	1/2"	44x4x26	AIRTHERM SW-A	1 2	
C 6	15.5	16.25	3/4"	1/2"	48x6x26	AIRTHERM SW-A	1 2	
C 7	19.8	20.75	1"	3/4"	60x4x26	AIRTHERM SW-A	123	
C 8	22.5	23.5	1"	3/4"	72x4x26	AIRTHERM SW-A	123	
(C)	26.8	28	1"	3/4"	84x4x26	AIRTHERM SW-A	123	
C 10	31	32.25	1-1/4"	3/4"	96x4x26	AIRTHERM SW-A	123	
C 11	39.6	41.25	1-1/4"	3/4"	120x4x26	AIRTHERM SW-A	123	
C 12	49.3	51.5	1-1/4"	1"	132x4x26	AIRTHERM SW-A	123	
C 13	53.6	56	1-1/4"	1"	144x4x26	AIRTHERM SW-A	123	
C 14	59.4	62	1-1/2"	1"	180x4x26	AIRTHERM SW-A	123	
C 15	62	65	1-1/2"	1"	192x4x26	AIRTHERM SW-A	123	
C 16	69	72	1-1/2"	1"	228x4x26	AIRTHERM SW-A	123	

- SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
- PROVIDE BAKED ENAMEL FINISH WITH COLOR BY
- PROVIDE TWINNING KIT FOR UNITS LONGER THAN MANUFACTURER'S STANDARD SIZES. SEE DETAIL.

CABINET UNIT HEATER SCHEDULE								
		MOTOR	HEATING	CAPACITY			UNIT	
SYMBOL		HP 2	MBH	STEAM LBS/HR	STEAM PIPING BRANCHES		SIZE	MAKE AND MODEL
CH 1	230	1/10	22.6	23.4	3/4"	3/4"	02	AIRTHERM F-1000 4 5
CH 2	335	1/10	31.4	32.5	1"	3/4"	03	AIRTHERM F-1000 4 5
CH 3	430	1/10	41.0	42.4	1"	3/4"	04	AIRTHERM F-1000 4 5
CH 4	630	1/10	66.1	68.4	1-1/4"	1"	06	AIRTHERM F-1000 4 5
(2 D)	1410	1/10	108.2	112	1-1/2"	1"	14	AIRTHERM F-1000 4 5

- THREE SPEED MOTOR.
- RE-CONNECT TO EXISTING 120/1/60 ELECTRICAL SERVICE.
- TWO MOTORS.
- PROVIDE WITH BAKED ENAMEL, FINISH WITH COLOR BY OWNER
- SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.



STEAM CONVECTOR WITH TWINNING KIT DETAIL

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PROJECT NAME & ADDRESS

WSU BUILDINGS #4 STEAM, CONDENSATÉ, **DOMESTIC WATER** REPLACEMENT **DFCM No. 06052810**

OGDEN, UTAH

REVISION — CD 4/17 PROJECT MANAGER:

STAFF CHECKED BY:
SLW 04/17/06 WHW JOB NO.: 06004

BUILDING #4 2ND LEVEL MECHANICAL DETAILS AND SCHEDULES

ME501

PLUMBING GENERAL NOTES:

- ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
- ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR
- PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH UTAH CODE.
- ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.
- THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.
- ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/NSF STANDARD 61 SECTION 9 (1998), CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.
- WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.

PLUMBING LEGEND							
MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION				
HOT WATER LINE		WALL CLEANOUT	WCO				
COLD WATER LINE		CLEANOUT	СО				
VENT LINE		CLEANOUT TO GRADE	COTG				
WASTE LINE		FLOOR CLEANOUT	FCO				
GAS LINE	——— G ———	BALL VALVE	Ф				

UNION

VTR

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CONNECTION TO

EXISTING PIPING

──|**├**──

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PROJECT NAME & ADDRESS

WSU BUILDINGS # 4 STEAM, CONDENSATE, DOMESTIC WATER REPLACEMENT **DFCM No. 06052810**

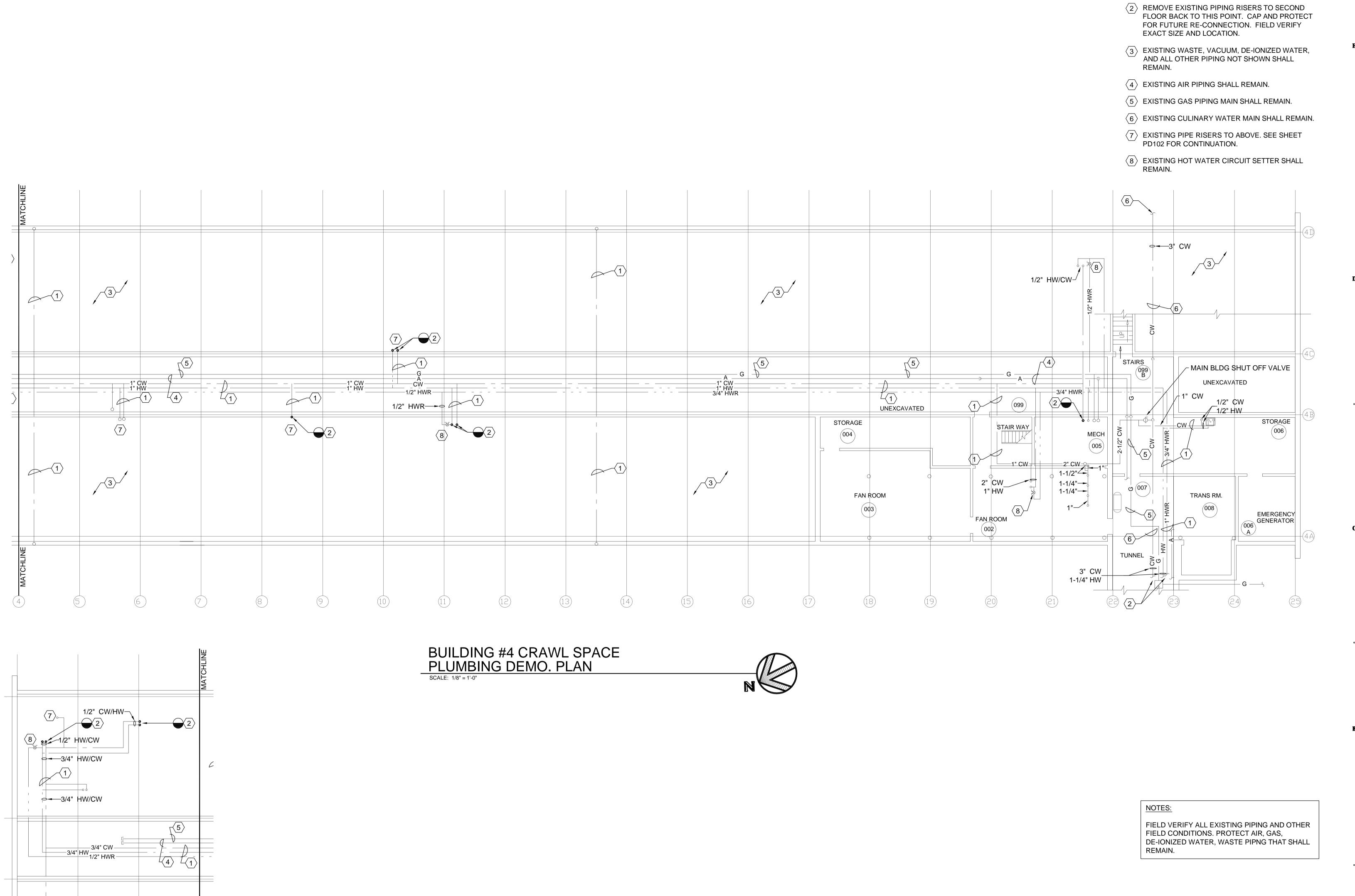
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REVISION — CD 4/17

CHECKED BY: SLW 04/17/06 WHW JOB NO.: 06004

> **PLUMBING GENERAL NOTES AND LEGENDS**

P001



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Department of Administrative Services

SHEET NOTES:

1 EXISTING CULINARY COLD, HOT AND HOT WATER RECIRCULATING PIPING SHALL REMAIN.

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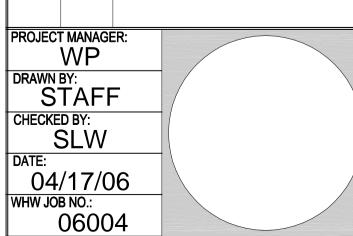
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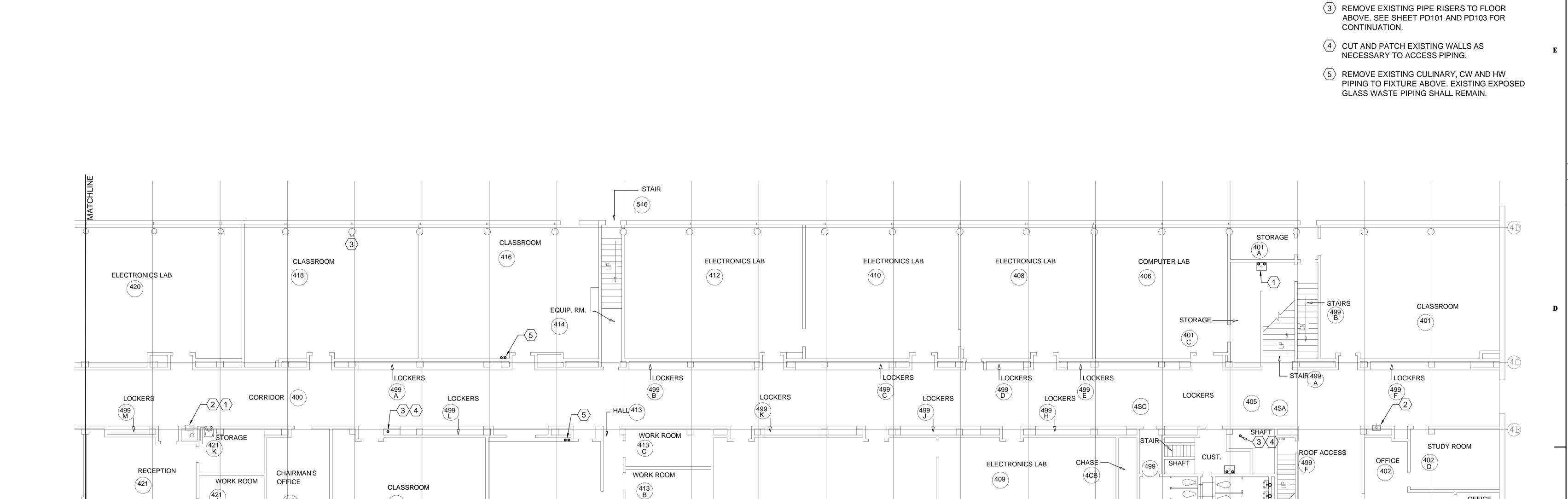
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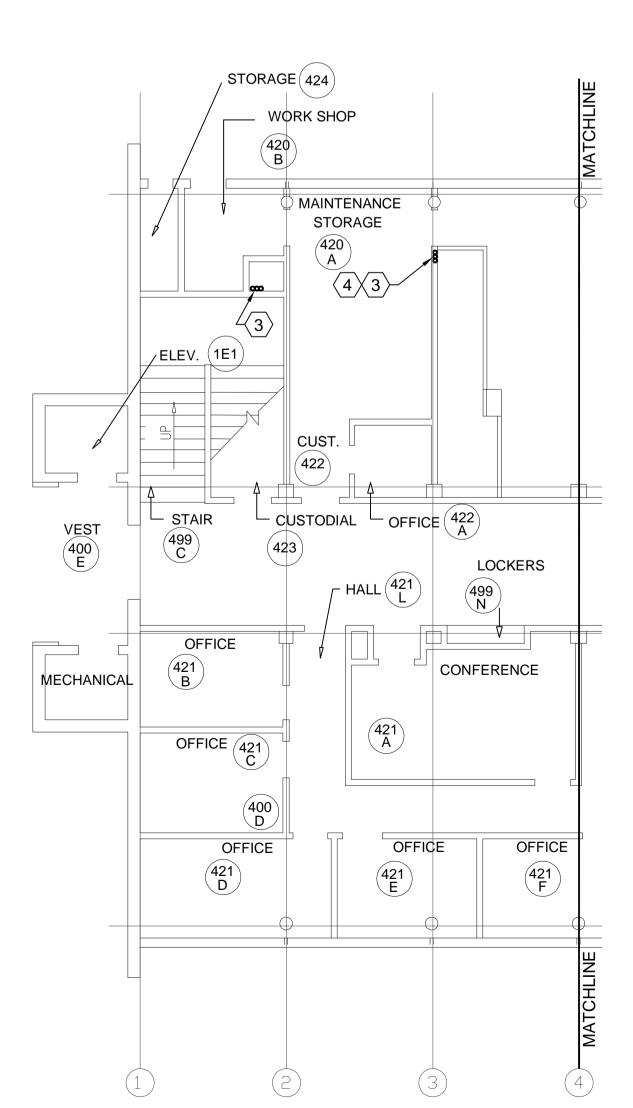
BUILDING #4 CRAWL SPACE AND TUNNEL PLUMBING DEMO. **PLAN**

PD101



ELECTRONICS LAB

411



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BUILDING #4 MAIN LEVEL PLUMBING DEMOLITION PLAN

WORK ROOM

415

EQUIPMENT STORAGE



FIELD VERIFY ALL EXISTING PIPING AND OTHER FIELD CONDITIONS. PROTECT AIR, GAS, DE-IONIZED WATER, WASTE PIPNG THAT SHALL REMAIN.

State of Utah Department of Administrative Services



SHEET NOTES:

SHALL REMAIN.

402 A OFFICE

402 B OFFICE

1 EXISTING CULINARY HOT AND COLD WATER LINES SERVING EXISTING LAVATORY OR FIXTURE.

 $\langle 2 \rangle$ EXISTING DRINKING FOUNTAIN SHALL REMAIN.

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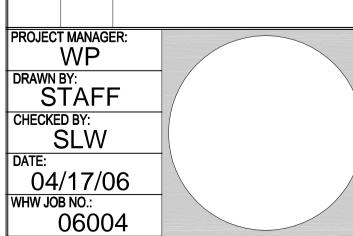
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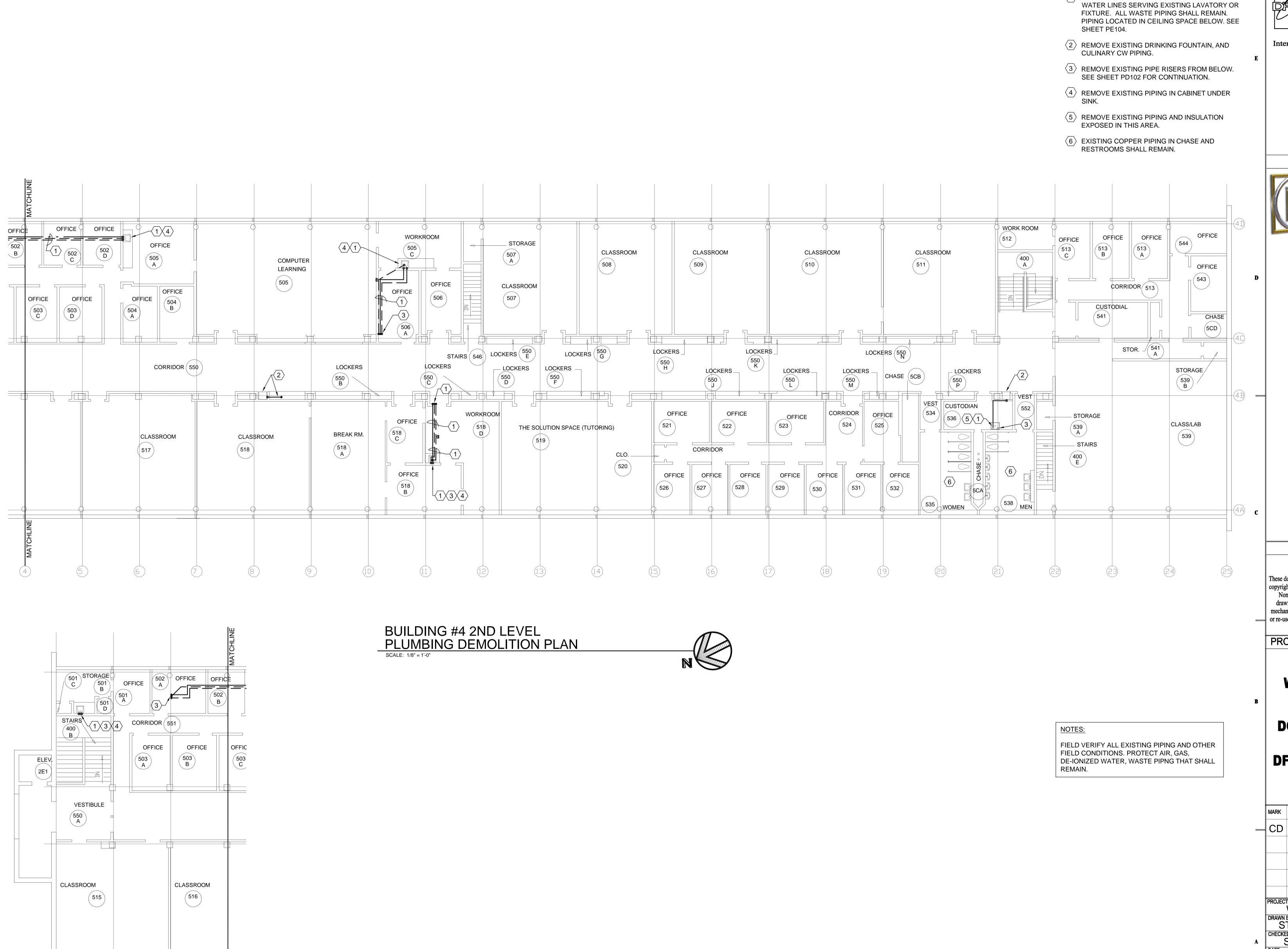
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BUILDING #4 MAIN LEVEL PLUMBING DEMO. PLAN

PD102



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SHEET NOTES:

1 REMOVE EXISTING CULINARY HOT AND COLD

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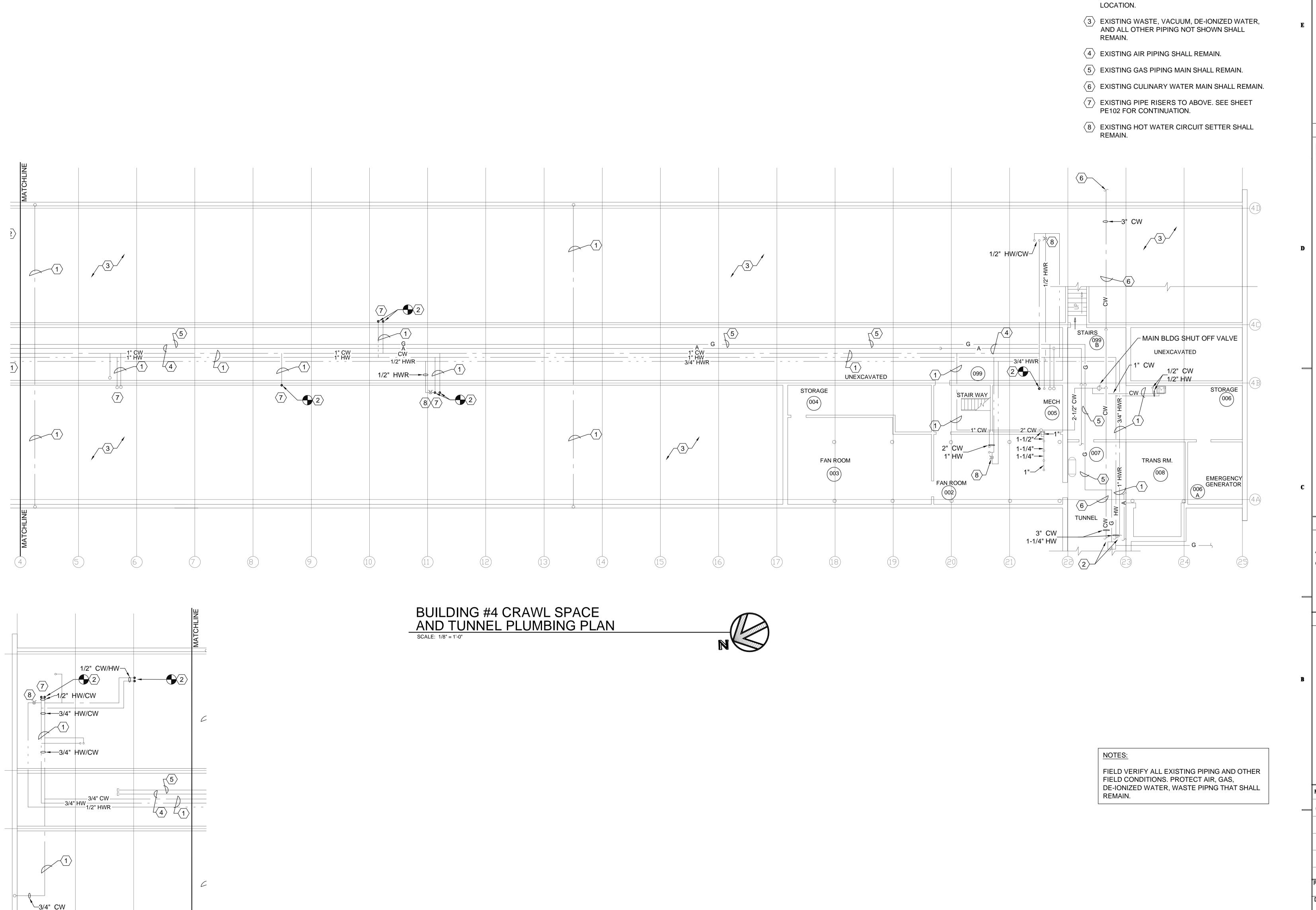
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> **BUILDING #4 2ND LEVEL** PLUMBING DEMO. PLAN

PD103



State of Utah
Department of Administrative Services



SHEET NOTES:

1 EXISTING CULINARY COLD, HOT AND HOT WATER RECIRCULATING PIPING SHALL REMAIN.

2 PROVIDE NEW PIPING RISERS TO SECOND FLOOR AT THIS POINT. FIELD VERIFY EXACT SIZE AND

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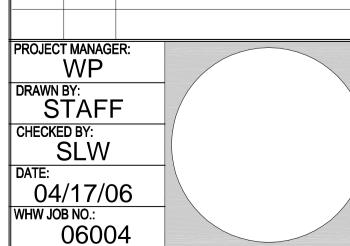
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BUILDING # 4 **CRAWL SPACE AND TUNNEL PLUMBING PLAN**

PE101

SHEET NOTES CONT.:

- 7 EXISTING PIPING SHALL BE ABANDONED IN
- (8) EXISTING PIPING IN CABINET UNDER SINK SHALL
- $\bigcirc 9$ PIPING AND INSULATION ARE EXPOSED IN THIS
- 10 ROUTE NEW PIPING CONCEALED IN EXISTING CHASE, OR EXPOSED IN STAIRWELL.
- (11) RE-CONNECT TO EXISTING PIPING. FIELD VERIFY EXACT SIZES AND LOCATION.

SHEET NOTES:

- 1 EXISTING CULINARY HOT AND COLD WATER LINES SERVING EXISTING LAVATORY OR FIXTURE. SHALL REMAIN.
 - $\overline{\langle 2 \rangle}$ EXISTING DRINKING FOUNTAIN SHALL REMAIN.
 - $\overline{\langle 3 \rangle}$ EXISTING RESTROOM PIPING SHALL REMAIN.
- 4 PIPING AND INSULATION ARE EXPOSED IN THIS AREA.
- 5 PROVIDE NEW CULINARY, CW AND HW PIPING TO FIXTURE ABOVE. EXISTING EXPOSED GLASS WASTE PIPING SHALL REMAIN.
- 6 EXISTING PIPE RISERS TO FLOOR ABOVE. SEE SHEET PE101 AND PE103 FOR CONTINUATION.



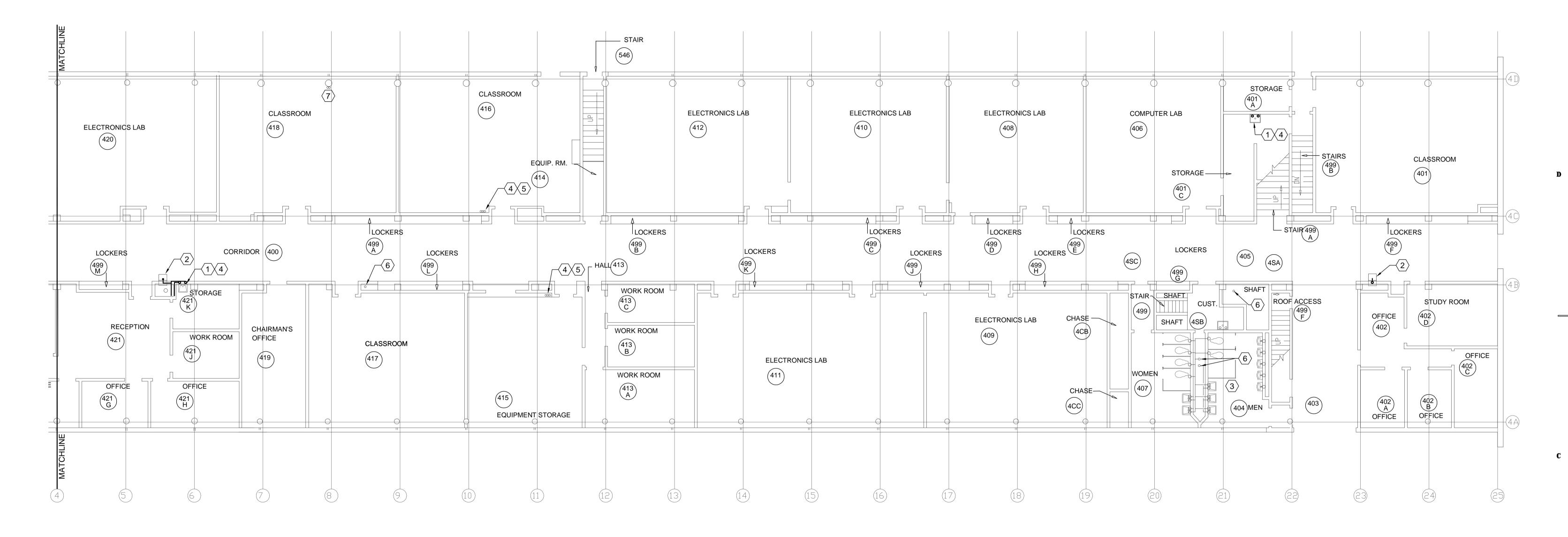


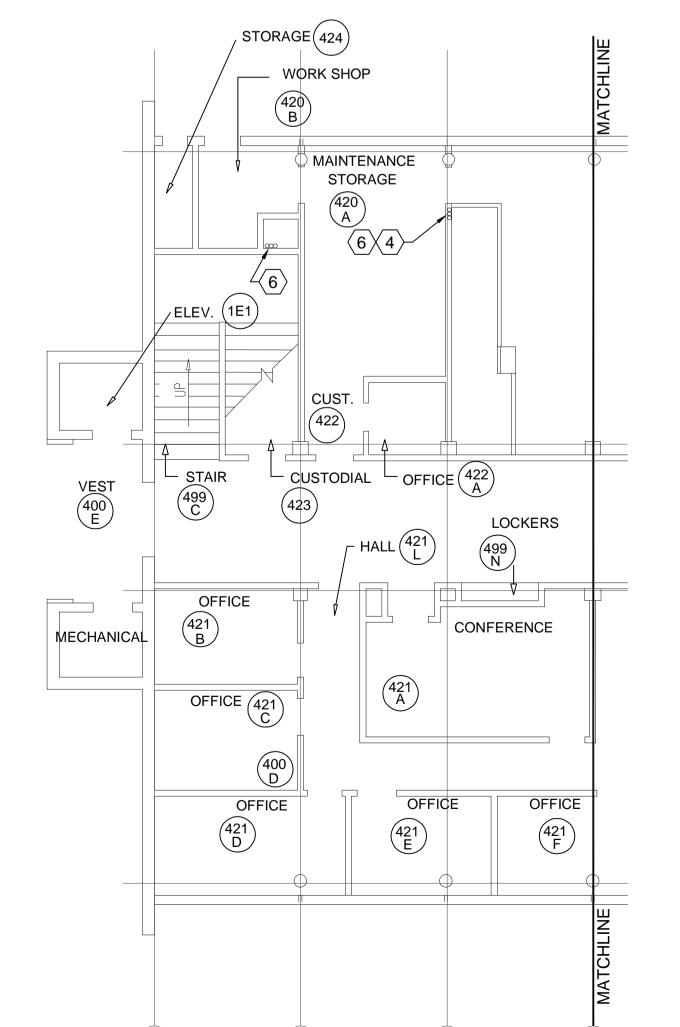
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BUILDING #4 MAIN LEVEL PLUMBING PLAN



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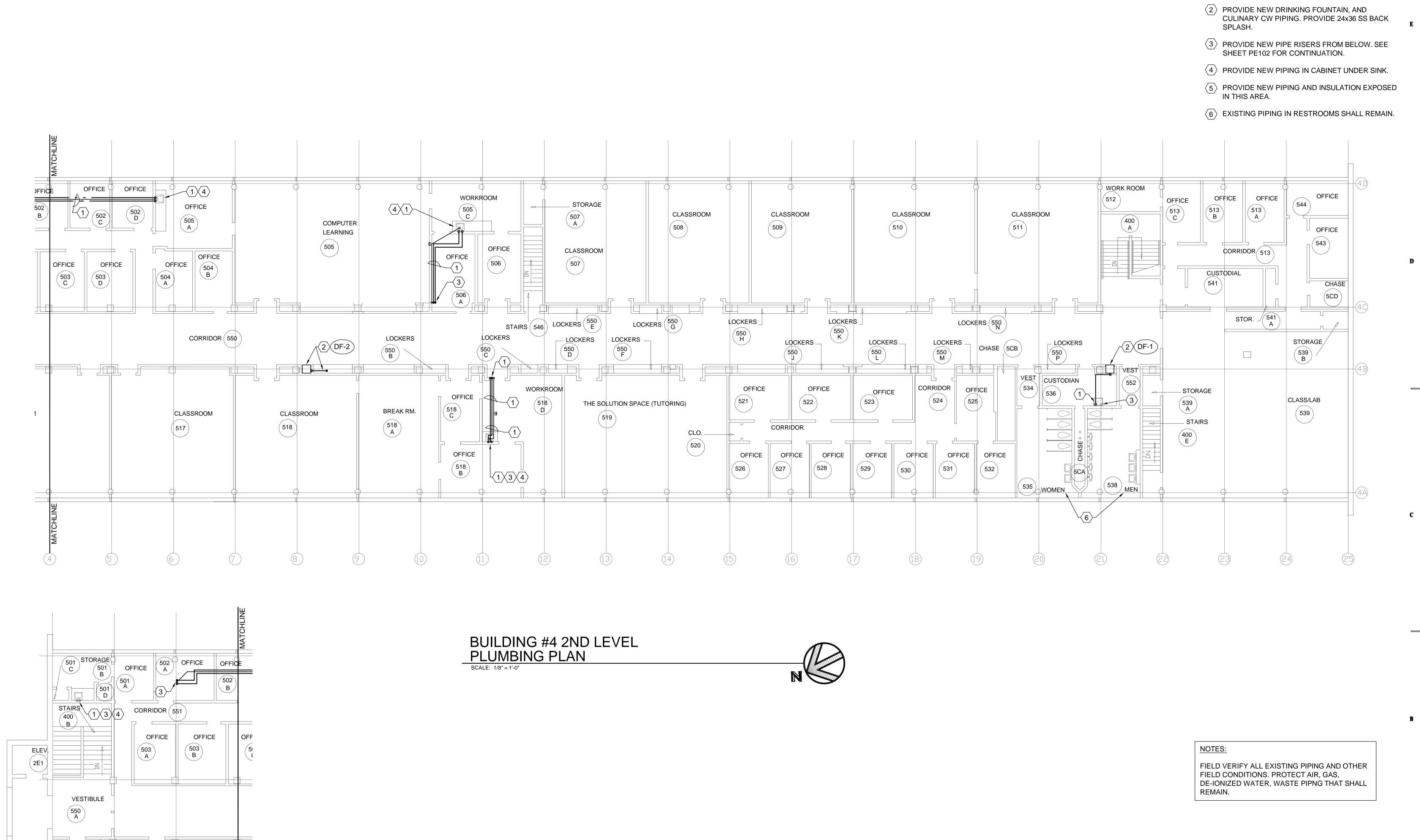
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> **BUILDING #4 MAIN LEVEL PLUMBING**

PLAN

PE102

FIELD VERIFY ALL EXISTING PIPING AND OTHER FIELD CONDITIONS. PROTECT AIR, GAS, DE-IONIZED WATER, WASTE PIPNG THAT SHALL REMAIN.



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516

CLASSROOM

515

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SHEET NOTES:

1 PROVIDE NEW CULINARY HOT AND COLD WATER

ALL WASTE PIPING SHALL REMAIN. PIPING

LINES SERVING EXISTING LAVATORY OR FIXTURE.

LOCATED IN CEILING SPACE BELOW. SEE SHEET

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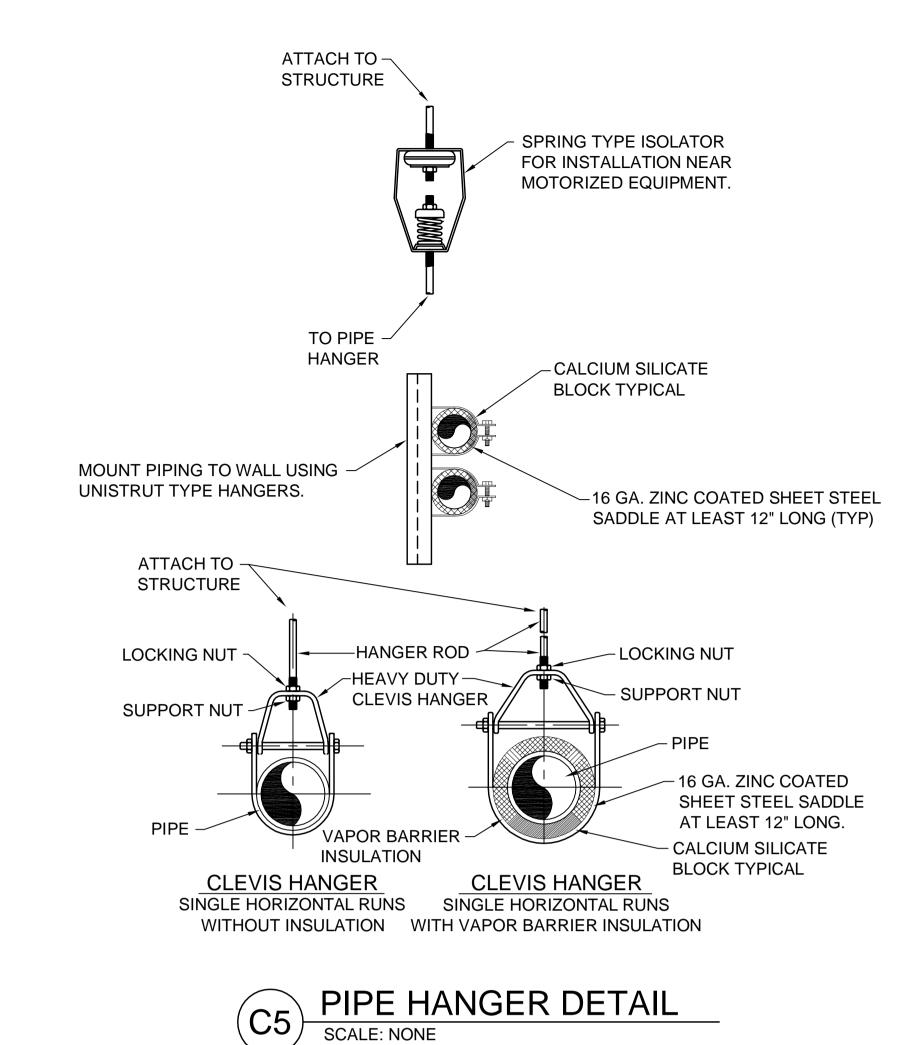
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> **BUILDING #4 2ND LEVEL PLUMBING** PLAN

PE103

PLUMBING FIXTURE SCHEDULE							
SYMBOL FIXTURE		INDIVIDUAL LINE SIZES					REMARKS
STIVIDOL	TIXTORE	TRAP	WASTE	VENT	C.W.	H.W.	KEIVIAKKO
DF-1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1-1/2"	1/2"	-	ELECTRIC WATER COOLER
DF-2	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1-1/2"	1/2"	-	ELECTRIC WATER COOLER (ADA COMPLIANT)

*PROVIDE WITH 24"x36" STAINLESS STEEL BACK SPLASH



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PROJECT NAME & ADDRESS

WSU BUILDINGS
4 STEAM,
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DOMESTIC WATER
REPLACEMENT
DFCM No. 06052810

OGDEN, UTAH

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BUILDING # 4 2ND LEVEL PLUMBING DETAILS AND SCHEDULES

PE501